FIG. 1

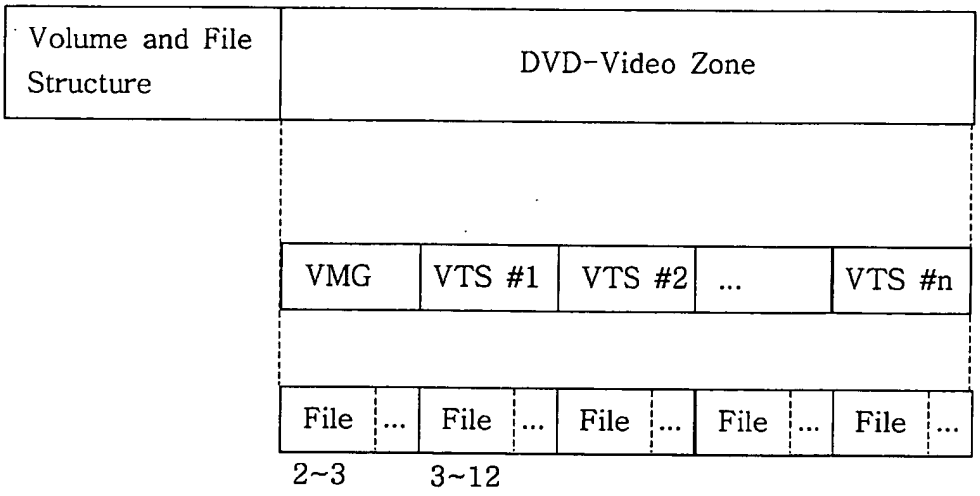

Volume and File Structure
DVD-Video Zone
VMG
VTS #1
VTS #2
...
VTS #n
File
...
File
...
File
...
File
...
File
...
2~3
3~12

FIG. 2

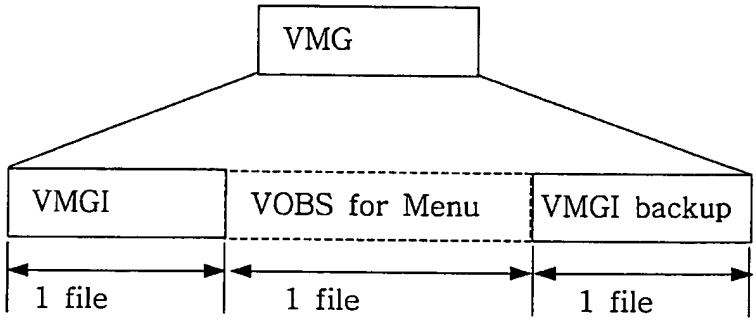

VMG
VMGI
VOBS for Menu
VMGI backup
1 file
1 file
1 file

FIG. 3

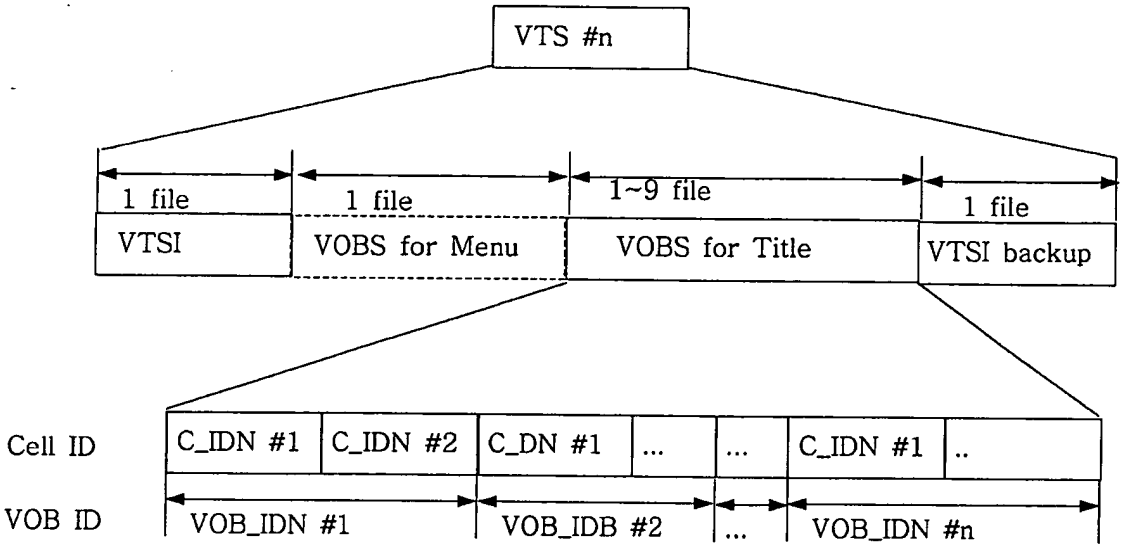

VTS #n
1 file
1 file
1~9 file
1 file
VTSI
VOBS for Menu
VOBS for Title
VTSI backup
Cell ID
C_IDN #1
C_IDN #2
C_DN #1
...
...
C_IDN #1
..
VOB ID
VOB_IDN #1
VOB_IDB #2
...
VOB_IDN #n

FIG. 4

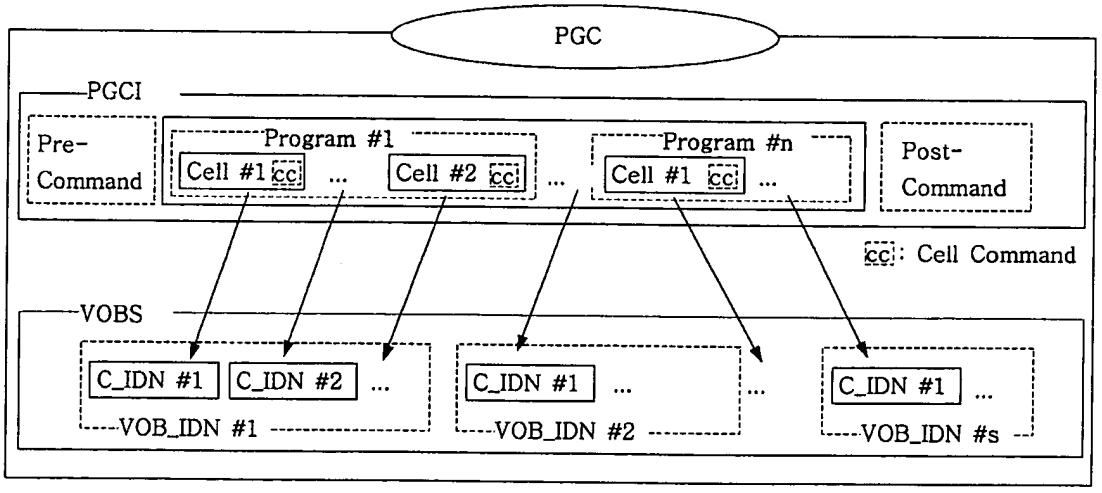

PGC
PGCI
Pre-Command
Program #1
Cell #1 cc
...
Cell #2 cc
...
Program #n
Cell #1 cc
...
Post-Command
cc: Cell Command
VOBS
C_IDN #1
C_IDN #2
...
VOB_IDN #1
C_IDN #1
...
...
VOB_IDN #2
C_IDN #1
...
VOB_IDN #s

FIG. 5

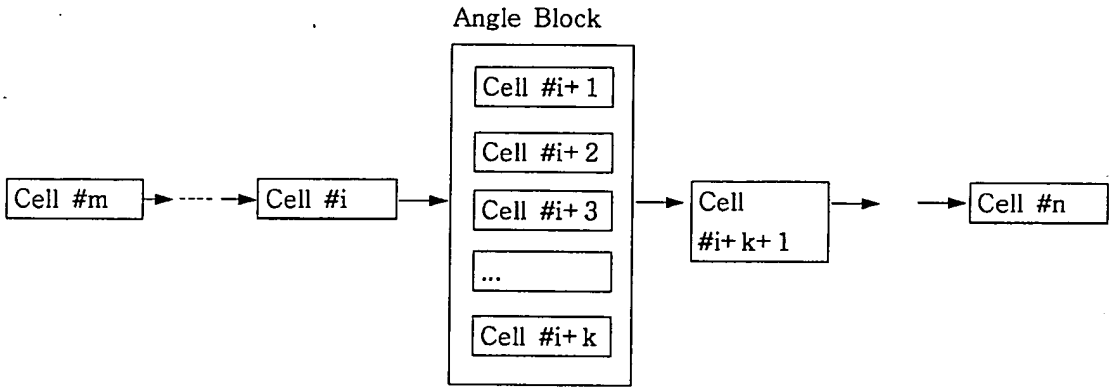


FIG. 6

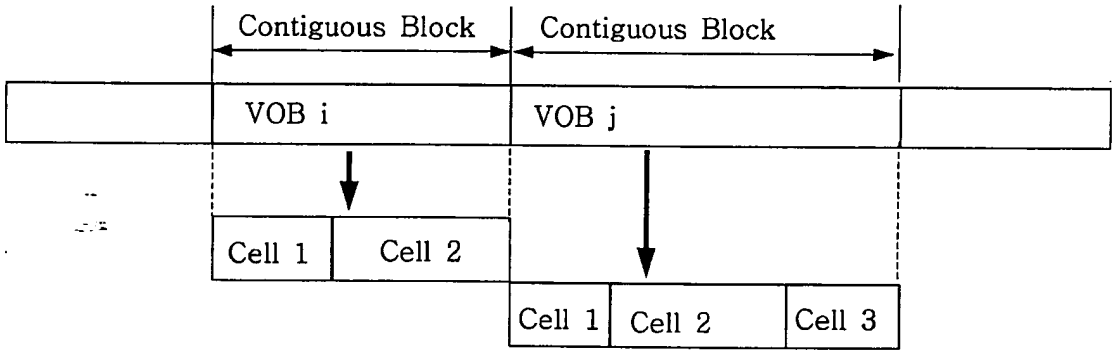


FIG. 7

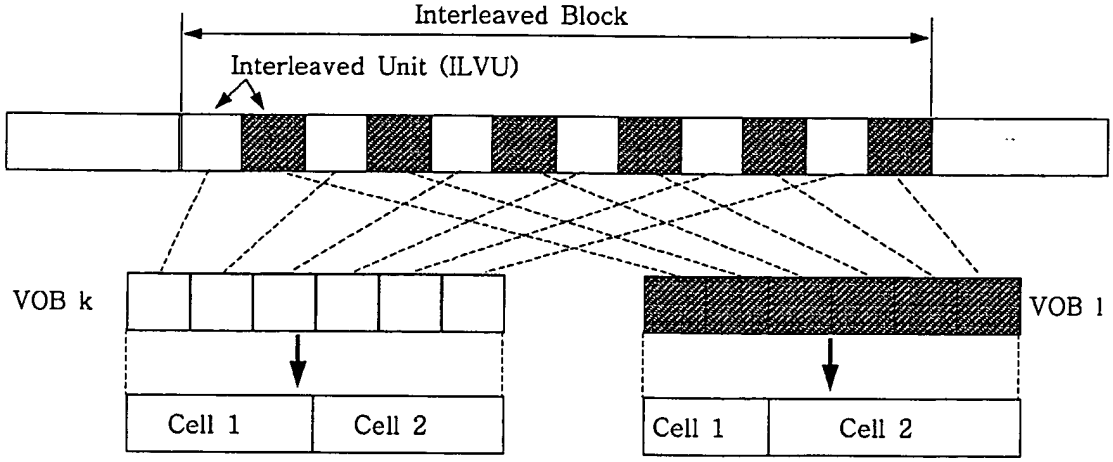


FIG. 8

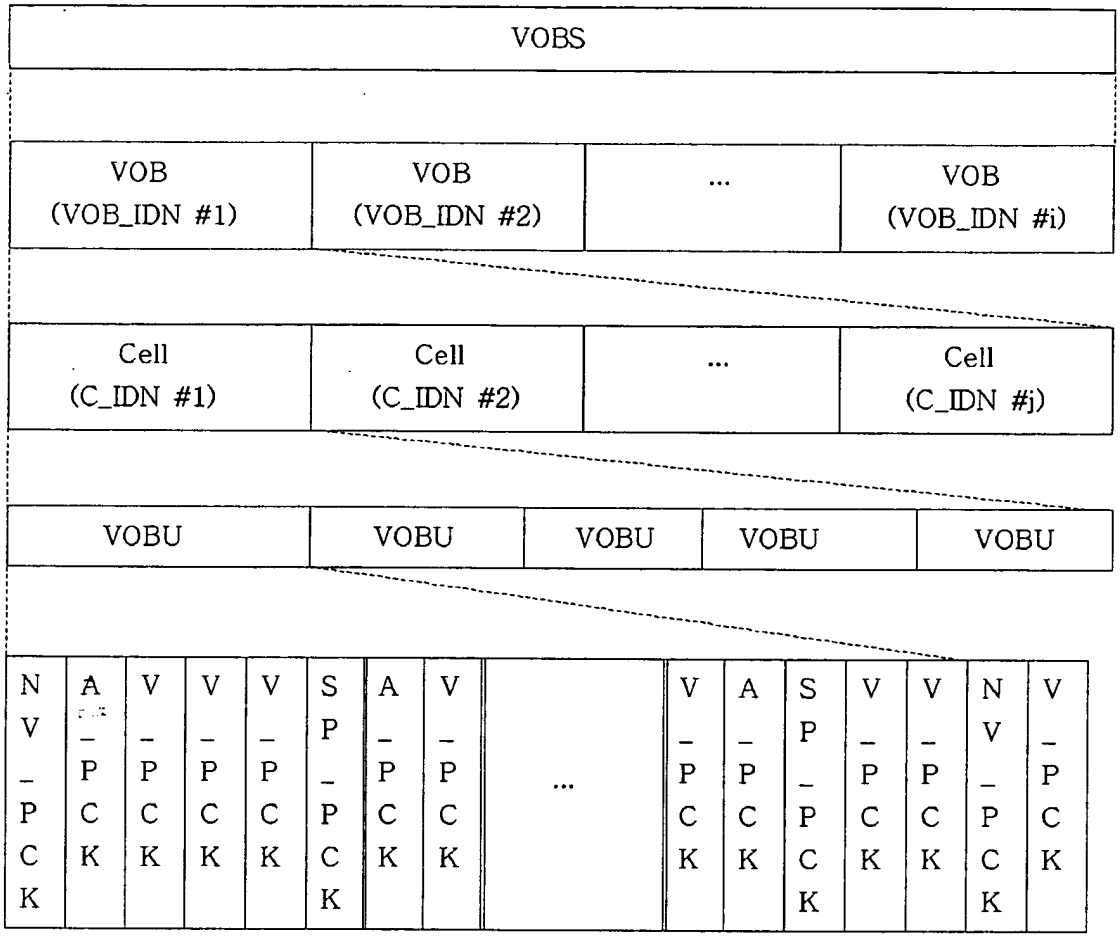

VOBS
VOB (VOB_IDN #1)
VOB (VOB_IDN #2)
...
VOB (VOB_IDN #i)
Cell (C_IDN #1)
Cell (C_IDN #2)
...
Cell (C_IDN #j)
VOBU
VOBU
VOBU
VOBU
VOBU
NV_PCK
A_PCK
V_PCK
V_PCK
V_PCK
SP_PCK
A_PCK
V_PCK
...
V_PCK
A_PCK
SP_PCK
V_PCK
V_PCK
NV_PCK
V_PCK

FIG. 9

SML_AGL_C1_DSTA(Address and size of destination ILVU in AGL_C1)
SML_AGL_C2_DSTA(Address and size of destination ILVU in AGL_C2)
SML_AGL_C3_DSTA(Address and size of destination ILVU in AGL_C3)
SML_AGL_C4_DSTA(Address and size of destination ILVU in AGL_C4)
SML_AGL_C5_DSTA(Address and size of destination ILVU in AGL_C5)
SML_AGL_C6_DSTA(Address and size of destination ILVU in AGL_C6)
SML_AGL_C7_DSTA(Address and size of destination ILVU in AGL_C7)
SML_AGL_C8_DSTA(Address and size of destination ILVU in AGL_C8)
SML_AGL_C9_DSTA(Address and size of destination ILVU in AGL_C9)

FIG. 10

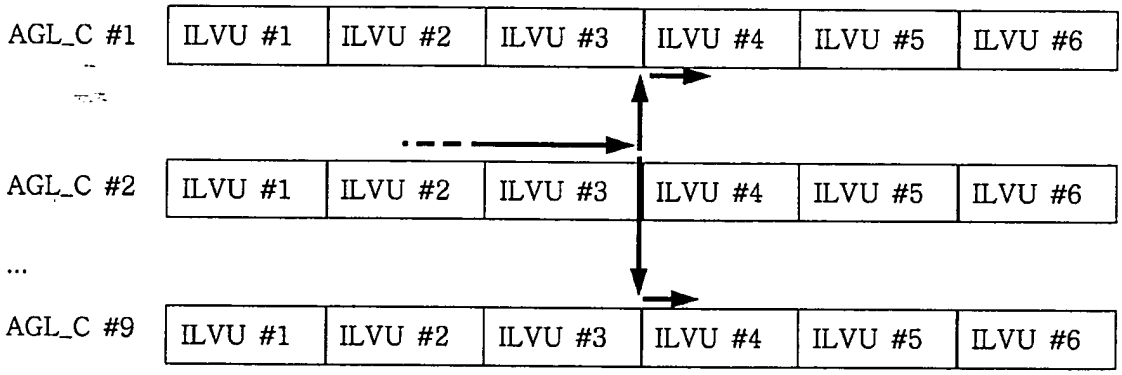


FIG. 11

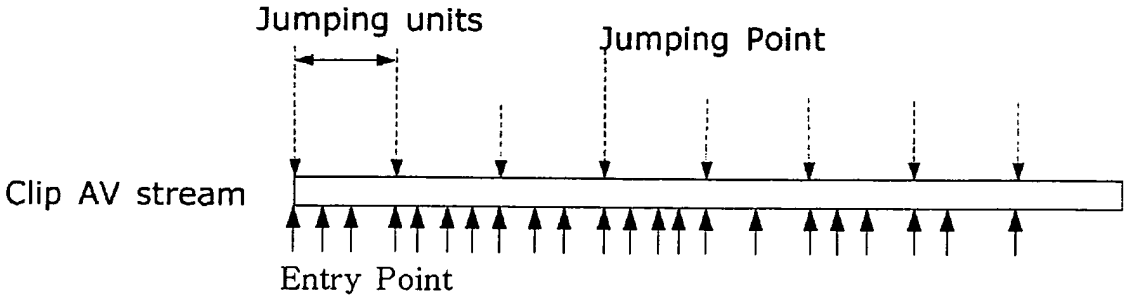


FIG. 12

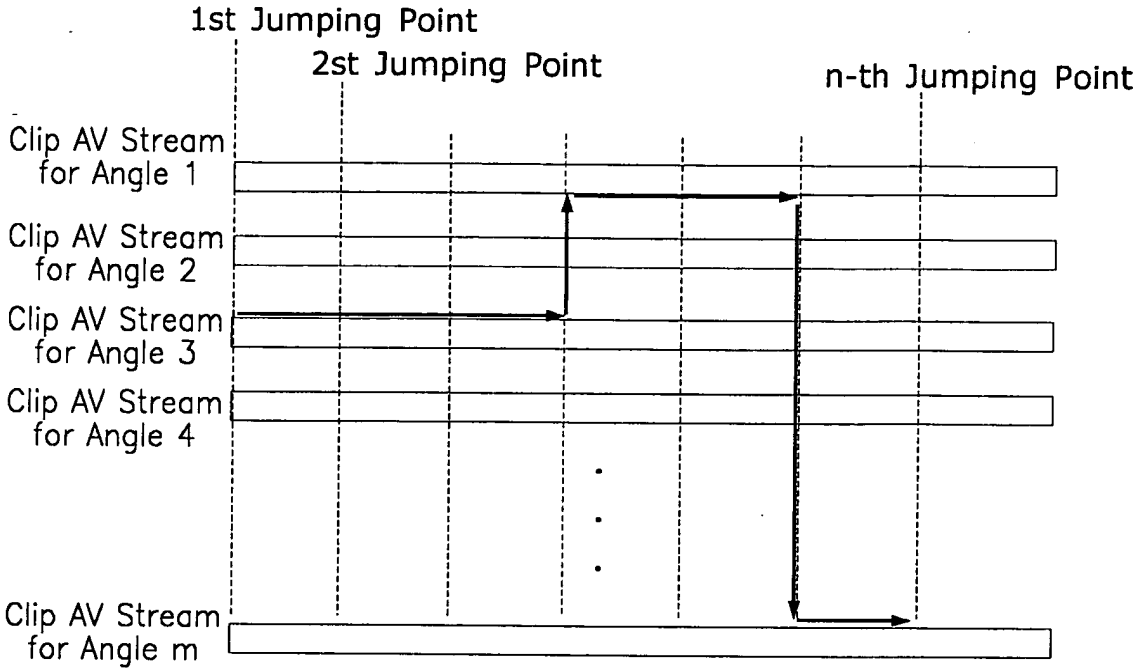

1st Jumping Point
2st Jumping Point
n-th Jumping Point
Clip AV Stream for Angle 1
Clip AV Stream for Angle 2
Clip AV Stream for Angle 3
Clip AV Stream for Angle 4
Clip AV Stream for Angle m

FIG. 13

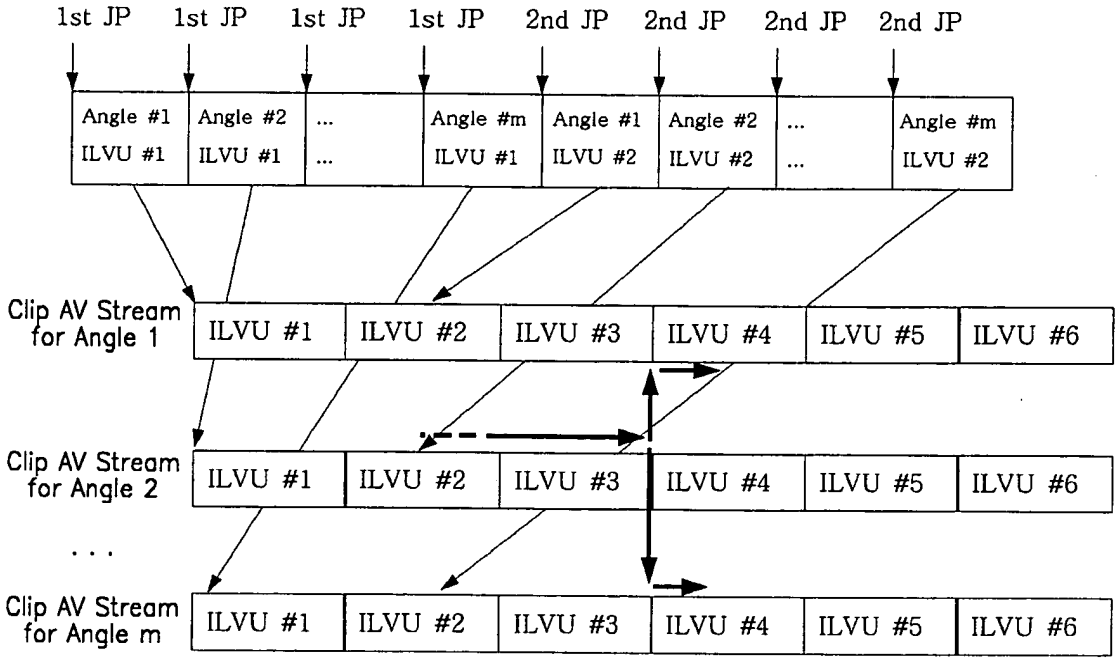

1st JP
1st JP
1st JP
1st JP
2nd JP
2nd JP
2nd JP
2nd JP
Angle #1 ILVU #1
Angle #2 ILVU #1
...
Angle #m ILVU #1
Angle #1 ILVU #2
Angle #2 ILVU #2
...
Angle #m ILVU #2
Clip AV Stream for Angle 1
Clip AV Stream for Angle 2
Clip AV Stream for Angle m
ILVU #1
ILVU #2
ILVU #3
ILVU #4
ILVU #5
ILVU #6

FIG. 14

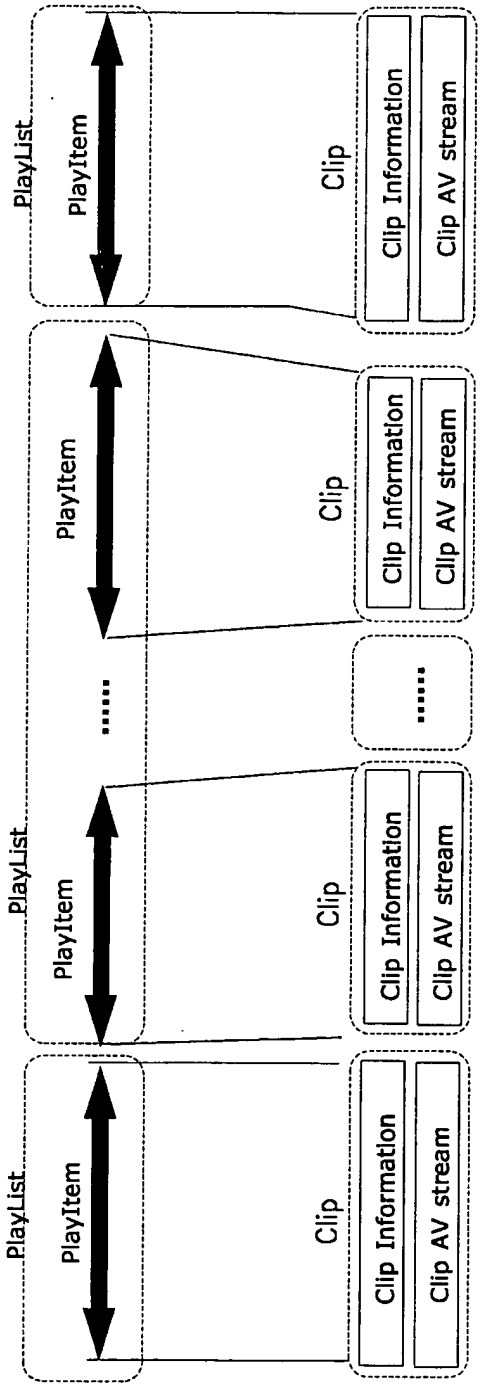

PlayList
PlayItem
Clip
Clip Information
Clip AV stream
PlayList
PlayItem
Clip
Clip Information
Clip AV stream
.....
.....
PlayList
PlayItem
Clip
Clip Information
Clip AV stream
PlayList
PlayItem
Clip
Clip Information
Clip AV stream

FIG. 15

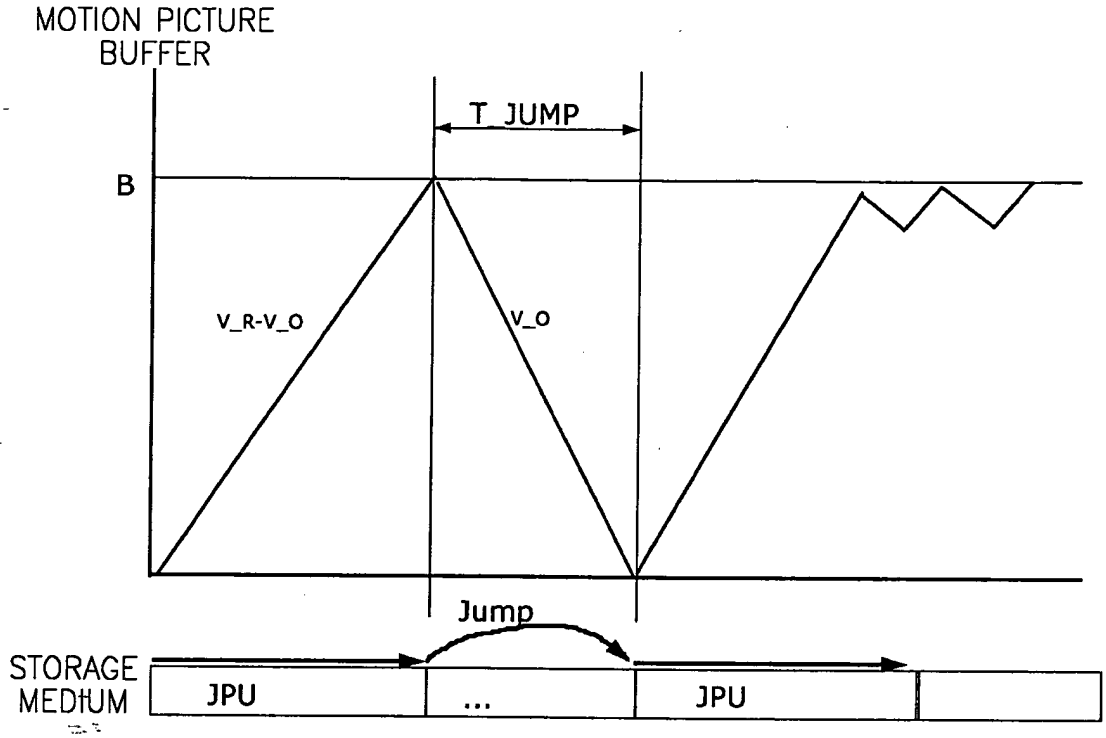

MOTION PICTURE BUFFER
T_JUMP
B
V_R-V_O
V_O
Jump
STORAGE MEDIUM
JPU
...
JPU

FIG. 16

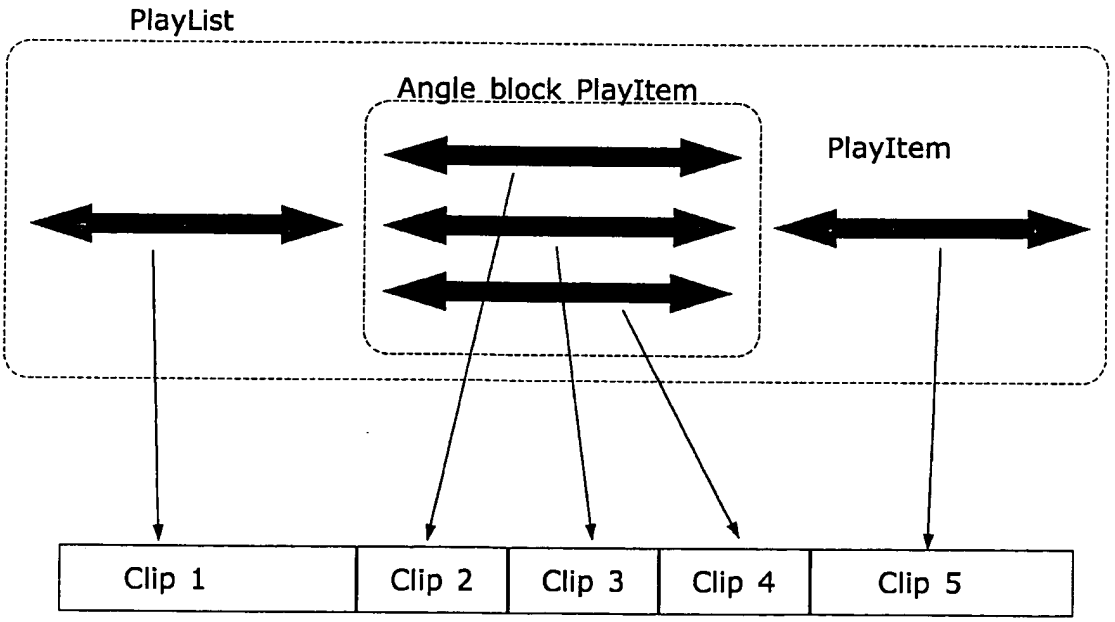

PlayList
Angle block PlayItem
PlayItem
Clip 1
Clip 2
Clip 3
Clip 4
Clip 5

FIG. 17

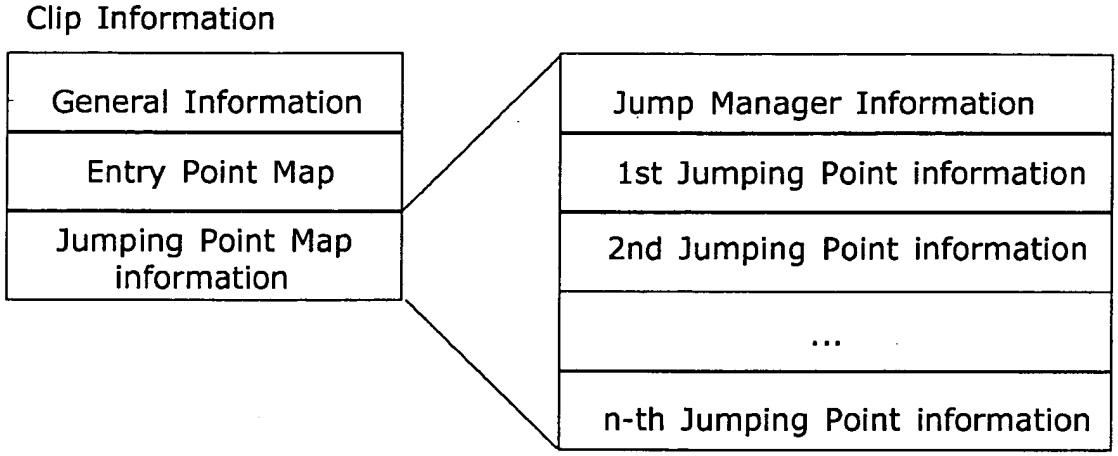

Clip Information
General Information
Entry Point Map
Jumping Point Map information
Jump Manager Information
1st Jumping Point information
2nd Jumping Point information
...
n-th Jumping Point information

FIG. 18

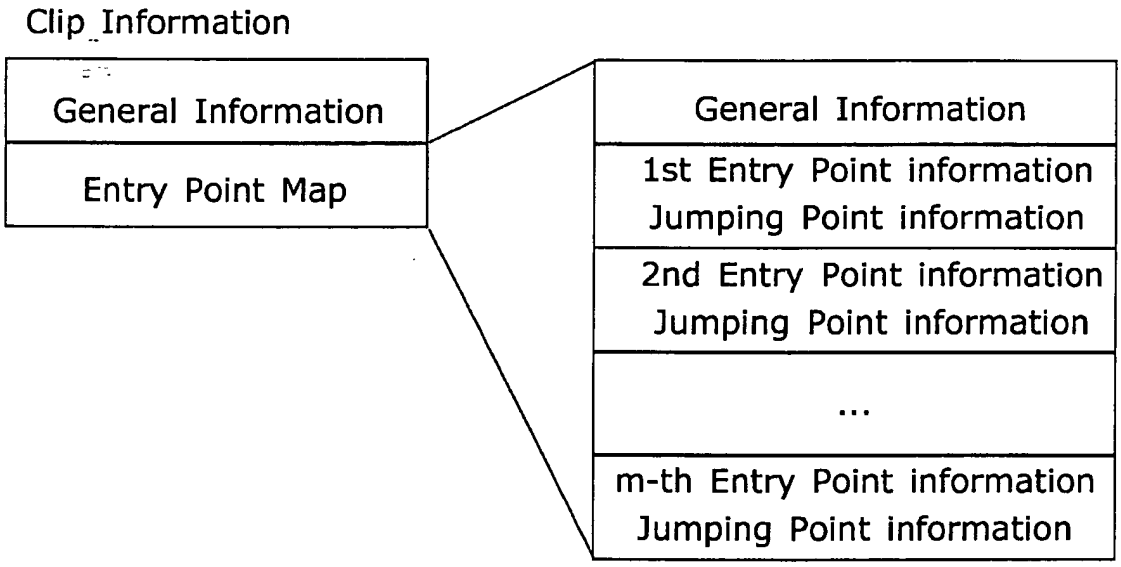

Clip Information
General Information
Entry Point Map
General Information
1st Entry Point information
Jumping Point information
2nd Entry Point information
Jumping Point information
...
m-th Entry Point information
Jumping Point information

FIG. 19

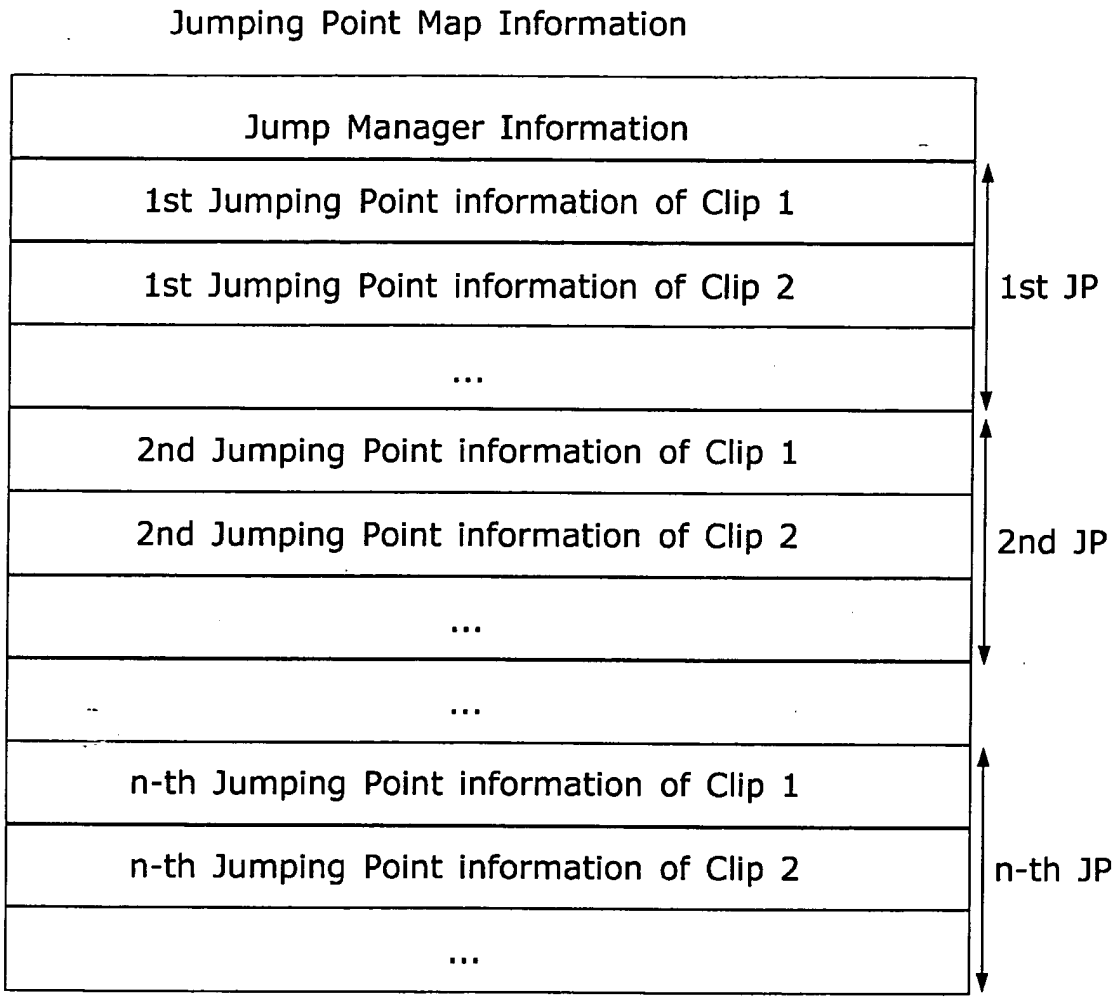

Jumping Point Map Information
Jump Manager Information
1st Jumping Point information of Clip 1
1st Jumping Point information of Clip 2
...
2nd Jumping Point information of Clip 1
2nd Jumping Point information of Clip 2
...
...
n-th Jumping Point information of Clip 1
n-th Jumping Point information of Clip 2
...
1st JP
2nd JP
n-th JP

FIG. 20

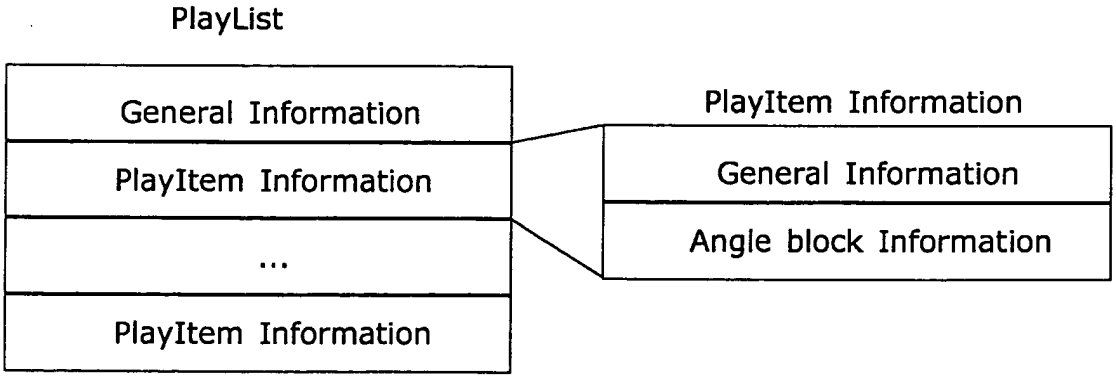

PlayList
General Information
PlayItem Information
...
PlayItem Information
PlayItem Information
General Information
Angle block Information

FIG. 21

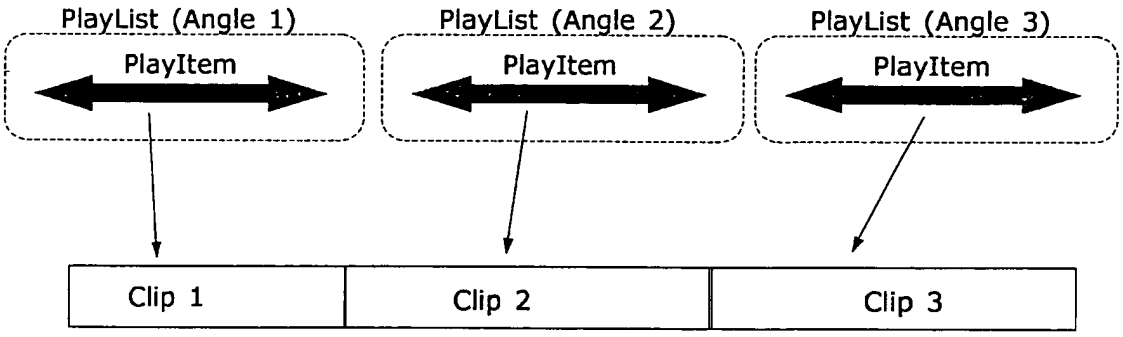
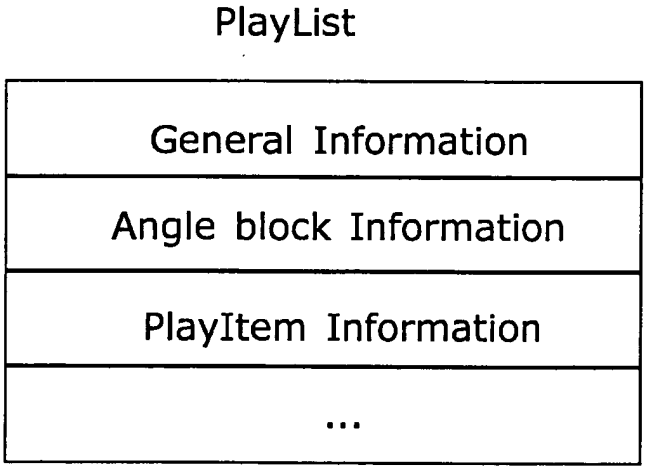

PlayList (Angle 1)
PlayItem
PlayList (Angle 2)
PlayItem
PlayList (Angle 3)
PlayItem
Clip 1
Clip 2
Clip 3

FIG. 22


PlayList
General Information
Angle block Information
PlayItem Information
...